



IEEE VEHICULAR TECHNOLOGY SOCIETY - HARMAN CHAPTER SIG NEWSLETTER



EDITOR'S MESSAGE

Jayasudha BSK Rakesh Ramesh

Welcome to the first newsletter of the IEEE Vehicular Technology Society (VTS) Harman Chapter! We are excited to share the latest updates, events, and developments within our chapter. Our goal is to foster a vibrant community dedicated to advancing vehicular technology through knowledge sharing and collaboration. We hope you find this newsletter informative and engaging.

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INAUGURATION OF IEEE VTS HARMAN CHAPTER SIG





Anish Cheriyan

At HARMAN, Industry associations are one of the important areas that we focus on to foster innovation, address real-world challenges, knowledge sharing and more.

HARMAN Automotive has recently associated with IEEE VTS (Vehicular Technology Solution) SIG (Special Interest Group), to nurture the existing talent and technologies and create new benchmarks in the automotive industry.

The SIG formed at HARMAN Automotive has been formed based on three main objectives and has charted out a robust plan to achieve several milestones in the year ahead.

- Innovation and joint research
- Collaboration with industry partners and academia
- Standardization and continuous deployment of automotive standards definition

The Inauguration event was held in December 2023 with participation from esteemed guests from IEEE - Dr. Aloknath De, Dr. Navin Kumar, Ms. Divya and was attended by over 100 participants live. The panel session on the Evolution of SDVs especially drew commendable reviews from the audience for its thoughtprovoking insights and takeaways.







ADVANCED RIDER ASSISTANCE SYSTEM WORKSHOP, TVS MOTORS





Ananya Banik

Lakshmiprasad Bandlamudi, Director, Sensor Domain Software, Intelligent Cockpit, was an invited speaker at the Advanced Rider Assistance System (ARAS) Workshop organized by TVS on 15th February 2024. Lakshmi presented the Harman Ready Care solution for In-Cabin Monitoring, sparking thought-provoking discussions on adapting such systems for the 2-Wheeler space.

The workshop also included several talks and hands-on sessions from MathWorks and Vector, focusing on Sensor Data Modelling and Annotation methods for ground truth labelling. The workshop was attended by Ananya Barnik, Shubada Padwal and Rakesh Ramesh from Harman.









TALK ON TIPS FOR WRITING IEEE PAPERS

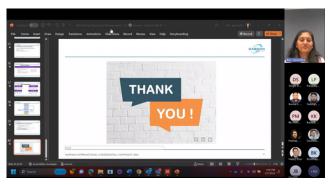


Seema Kumar



An informative session on "Tips for Writing IEEE Papers" was conducted by SMEs Lakshmiprasad Bandlamudi and Jayasudha BSk to guide our members on how to effectively write and publish papers in IEEE journals and conferences. The talk covered essential tips on structuring papers, adhering to IEEE guidelines, and increasing the impact of research work with 301 participants covered. This session was also a part of the global agenda of the Global Engineer's Week.





PANELIST FOR THE STEP-IN AUTOMOTIVE CONFERENCE

Rakesh Ramesh

Anish Cheriyan, VP, Project Test Domains, Intelligent Cockpit, was a distinguished panelist at the STeP-In Automotive Conference 2024 held in Bangalore on the 16th May 2024. The conference, themed "Shifting Gears: Navigating the Evolution of Automotive Industry," discussed various technology macro-trends driving the evolution of Software-Defined Vehicles (SDVs). Key topics included the future of mobility and managing complexities in SDV development using Model-Based Design.





VEHICLE TO EVERYTHING (V2X) TALK: "NAVIGATING THE PAST, PRESENT AND PROMISING HORIZON BEYOND ADAS"





Rishu Jain

Harman IEEE VTS SIG hosted our first The talk focused on the Evolution of V2X, the technical talk titled "V2X: Navigating the different Short-Range Technologies (DSRC & Past, the Present and Promising Horizon C-V2X), Standardization efforts across the beyond ADAS" provided by Harman Subject globe and introduced the Industry-first Matter Experts – Vijay Radhakrishnan & concept of Long-Range V2X over Uu to the Sridhar Vellenki Reddy on 18th April 2024.

The event was attended by very enthusiastic audience of over 200+ people in a hybrid setting including Harman employees from various functions and external IEEE participants.

The talk focused on the Evolution of V2X, the different Short-Range Technologies (DSRC & C-V2X), Standardization efforts across the globe and introduced the Industry-first concept of Long-Range V2X over Uu to the audience. The speakers left several food for thought with their video demonstrations of use-cases where V2X could prevent road incidents with its ability to provide Non-Line-of-Sight alerts & also the deployment challenges holding it back from realizing its potential.







BRAINSTORMING WORKSHOP FOR IEEE ICVTTS CONFERENCE



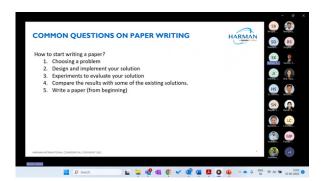


Jayasudha BSK

A brainstorming workshop was conducted by Seema Kumar on 25th April to encourage the Harman audience to come up with Technical Topics and Gaps in Automotive that can be researched further and addressed for technical papers. Over 30 participants attended the workshop and about 4-5 key technical topics were identified for submission for the Carnival and the IEEE Conference on Vehicular Technology and Transportation System (ICVTTS).

Seema further conducted a training for writing good quality IEEE papers, aimed to equip the audience with the essential skills and knowledge to craft well-structured papers that meet IEEE standards and increase their acceptance rate. Key topics covered in the session included Paper Structure and Content, Crafting an Effective Abstract and Introduction, Problem Statement, Evaluation and Results, References and Common Pitfalls.





COMMUNITY SOCIAL OUTREACH ACTIVITY

HARMAN-IEEE Vehicular Technology Society (VTS) Bangalore Chapter's Special Interest Group (SIG) recently visited Christel House (a school that transforms lives of children experiencing poverty around the world), supported by HARMAN Inspired in India.

Our team spent a rewarding day introducing the students to the exciting world of STEM, along with an overview of IEEE and HARMAN. The students were showcased the latest HARMAN Automotive, including the Space 2 and Intelligent Cockpit Solution, with live demonstrations on real vehicles.

The sessions were highly interactive, with students eager to learn and ask questions. Quiz was conducted, winners were rewarded with JBL products. Special thanks to Harman IEEE VTS SIG team for amazing teamwork and support led by Ananya Barnik, Lakshmiprasad Bandlamudi, Jayasudha B S K, Anish Cheriyan Ph.D

















UPCOMING EVENTS

28th September 2024

Devops for SDV by Shameer Cholakkara, Anish Cheriyan

28th September 2024

IEEE Conference on Vehicular Technology & Transportation Systems, Bangalore







The Institute of Electrical and Electronics Engineers (IEEE) is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. With over 400,000 members in more than 160 countries, IEEE is a leading authority on a wide range of areas including aerospace systems, computers, telecommunications, biomedical engineering, electric power, consumer electronics, and more.

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For more information please refer to https://vtsociety.org/

CONTRIBUTING TO HARMAN IEEE VTS SIG CHAPTER

The IEEE HARMAN SIG team invites you to participate and be a part of this journey. Employees interested to join the team can connect at harmanieeesig@harman.com

Thank you for being a part of the Harman IEEE VTS Chapter. We look forward to your active participation in our future events and initiatives.

Best regards,

Harman IEEE VTS SIG Organizing Team

